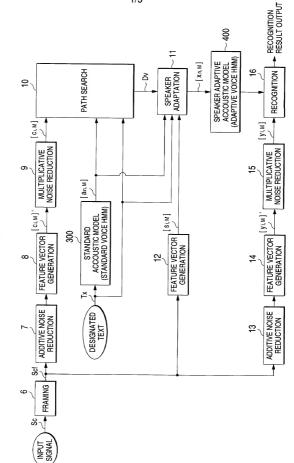
FIG.



2/9 FIG. 2

STATE NUMBER n	SYLLABLE	STANDARD VECTOR [an, M]				
1	Α	[ a1,1	a1,2	<b>a</b> 1, 3		а1,м ]
2	I	[ a2,1	a 2, 2	<b>a</b> 2, 3		а2,м ]
3	U	[ a 3, 1	<b>a</b> 3, 2	<b>a</b> 3, 3		аз,м ]
4	E	[ a 4, 1	a 4, 2	<b>a</b> 4, 3		а4,м]
5	0	[ a5,1	a 5, 2	<b>a</b> 5, 3		а 5, м ]
6	KA	[ a 6, 1	a 6, 2	<b>a</b> 6, 3		а 6, м ]
10	КО	[ a 10, 1	a 10, 2	<b>a</b> 10, 3		а 10, м ]
11	SA	[ a11,1	a 11, 2	a 11, 3		а 11, м ]
16	TA	[ a16,1	<b>a</b> 16, 2	a 16, 3		a 16, M ]
17	TI	[ a 17, 1	<b>a</b> 17, 2	a 17, 3		а 17, м ]
21	NA	[ a21, 1	a 21, 2	<b>a</b> 21, 3		a 21, M ]
22	NI	[ a 22, 1	<b>a</b> 22, 2	<b>a</b> 22, 3		а 22, м ]
26	HA	[ a 26, 1	<b>a</b> 26, 2	<b>a</b> 26, 3		а 26, м ]
31	MA	[ a 31, 1	<b>a</b> 31, 2	<b>a</b> 31, 3		а з1, м ]
36	YA	[ a 36, 1	a 36, 2	a 36, 3		а за, м ]
37	YU	[ a 37, 1	a 37, 2	a 37, 3		а 37, м ]
38	YO	[ a 38, 1	a 38, 2	a 38, 3		а зв, м ]
39	RA	[ a 39, 1	a 39, 2	a 39, 3		а зэ, м ]
44	WA	[ a 44, 1	a 44, 2	a 44, 3		а44,м]
45	WO	[ a 45, 1	<b>a</b> 45, 2	<b>a</b> 45, 3		а 45, м ]
46	N	[ a 46, 1	<b>a</b> 46, 2	a 46, 3		а 46, м ]
N	:	[ a N, 1	a N, 2	a N, 3		ам,м ]

TIME

## FIG. 3

ED414E	T				
FRAME NUMBER i	FEATL	THE TIME O JRE VECTO JRE VECTO	R[si, M]GE	NERATED	IN THE
1	[ S1, 1	\$1,2	\$1,3		S1, M ]
2	[ S2, 1	\$2,2	\$2,3		\$2,M ]
3	[ S3, 1	\$3,2	S3, 3		S3, M ]
4	[ S4, 1	\$4,2	\$4,3		S4, M ]
5	[ S5, 1	\$5,2	<b>S</b> 5, 3		\$5, M ]
6	[ S6, 1	S6,2	S 6, 3		S6, M ]
7	[ S7, 1	\$7, 2	\$7,3		S7, M ]
8	[ S8, 1	\$8,2	\$8,3		S8, M ]
9	[ S9, 1	\$9,2	\$9,3		S9, M ]
10	[ S10, 1	S 10, 2	S 10, 3		S10, M ]
11	[ S11,1	S11, 2	\$11,3		S11, M ]
12	[ S12, 1	\$12,2	S 12, 3		\$12, M ]
13	[ S13, 1	\$13,2	S13, 3		S13, M ]
14	[ S14, 1	S14, 2	\$14,3		S14, M ]
15	S 15, 1	\$15,2	\$15,3		S15, M ]
16	[ S16, 1	\$16,2	S16, 3		S16, M ]
17	[ S17, 1	\$17,2	\$17,3		S17, M ]
18	[ S18, 1	\$18,2	S18, 3		S18, M ]
19	[ S 19, 1	S19, 2	S 19, 3		S19, M ]
20	[ S20, 1	\$20, 2	\$20,3		S20, M ]
					-
29	[ S29, 1	\$29,2	S 29, 3		S 29, M ]
30	[ S30, 1	\$30, 2	\$30,3		S30, M ]

TIME

## FIG. 4

FRAME NUMBER i	FEAT	THE TIME C URE VECTO IPLICATIVE	OR [ ci, м ] OI	UTPUTTED	FROM
1	[ C1,1	C1,2	C1, 3		С1, М ]
2	[ C2, 1	C2, 2	C2, 3		C2, M ]
3	[ C3, 1	C3, 2	C3, 3		Сз, м ]
4	[ C4, 1	C4, 2	C4, 3		C4, M ]
5	[ C5, 1	C5, 2	C5, 3		C5, M ]
6	[ C6, 1	C6, 2	C6, 3		C6, M ]
7	[ C7, 1	C7, 2	C7, 3		С7, М ]
8	[ C8, 1	C8, 2	C8, 3		C8, M ]
9	[ C9, 1	C9, 2	C9, 3		C9, M ]
10	[ C10, 1	C10, 2	C10, 3		C10, M ]
11	[ C11, 1	C11, 2	C11, 3		С11, М
12	[ C12, 1	C 12, 2	C 12, 3		C12, M ]
13	[ C13, 1	C 13, 2	C13, 3		С13, М
14	[ C14, 1	C 14, 2	C14, 3		C14, M ]
15	[ C15, 1	C 15, 2	C15, 3		C15, M ]
16	[ C16, 1	C16, 2	C16, 3		C16, M ]
17	[ C17, 1	C 17, 2	C17, 3		C17, M ]
18	[ C18, 1	C 18, 2	C18, 3		C 18, M ]
19	[ C19, 1	C 19, 2	C19, 3		C19, M ]
20	[ C20, 1	C 20, 2	C20, 3		C20, M ]
29	[ C29, 1	C29, 2	C29, 3		C29, M ]
30	[ C30, 1	C30, 2	C30, 3		Сзо, м ]

FIG. 5

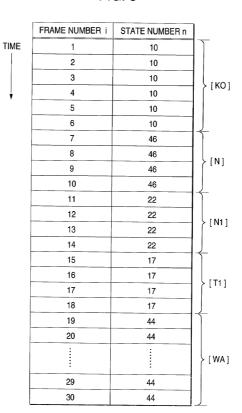


FIG. 6

FRAME NUMBER i	FEATURE VECTOR [si, M]	STATE NUMBER n	STANDARD VECTOR [an, M]	
1	[ S1,1 ····· S1,M ]	10	[ а 10, 1 · · · · а 10, м ]	
2	[ S2,1 ····· S2,M ]	10	[ a 10, 1 ····· a 10, M ]	1
3	[ \$3,1 ····· \$3,M ]	10	[ a 10, 1 ····· a 10, M ]	LKOI
4	[ S4,1 ····· S4,M ]	10	[ a 10, 1 ····· a 10, M ]	>[KO]
5	[ S5, 1 ····· S5, M ]	10	[a10,1 ····· a10,M]	
6	[ S6, 1 ····· S6, M ]	10	[a10,1 ····· a10,M]	
7	[ S7,1 ····· S7,M ]	46	[ a 46, 1 ····· a 46, M ]	1
8	[ S8,1 ····· S8,M ]	46	[ a 46, 1 ····· a 46, M ]	
9	[ S9,1 ····· S9,M ]	46	[ a 46, 1 ····· a 46, M ]	> [N]
10	[ S10,1 ····· S10,M ]	46	[ a 46, 1 ····· a 46, M ]	
11	[ S11,1 ····· S11,M ]	22	[ a 22, 1 ····· a 22, M ]	1
12	[ \$12,1 ····· \$12,M ]	22	[ a 22, 1 ····· a 22, M ]	[
13	[ \$13,1 ····· \$13,M ]	22	[ a 22, 1 ····· a 22, M ]	
14	[ S14,1 ····· S14,M ]	22	[ a 22, 1 ····· a 22, M ]	
15	[ \$15,1 ····· \$15,M ]	17	[ a 17, 1 ····· a 17, M ]	
16	[ S16, 1 ····· S16, M ]	17	[ a17,1 ····· a17,M ]	[ [ ]
17	[ S17,1 ····· S17,M ]	17	[ a17,1 ····· a17, m ]	
18	[ S18,1 ····· S18,M ]	17	[а17,1 ····· а17,м]	
19	[ S19,1 ····· S19,M ]	44	[ a 44, 1 ····· a 44, M ]	
20	[ S20, 1 ····· S20, M ]	44	[ a 44, 1 ····· a 44, M ]	
				[ WA ]
29	[ S29, 1 ····· S29, M ]	44	[ a 44, 1 ····· a 44, M ]	
30	[ \$30,1 ···· \$30,M ]	44	[ a 44, 1 ····· a 44, M ]	

FIG. 7

	[KO]	<u>Z</u>	. EN	Ē	[ WA ]
STANDARD VECTOR	[a10,1 a10,M]	[a46,1 a46,M]	[a22,1 a22,M]	[a17,1 a17,M]	[a44,1 a44,M]
STATE NUMBER n	10	46	55	17	44
AVERAGE FEATURE VECTOR STATE NUMBER [Sn.m]	[ S10,1 S10,M ]	[ S46,1 S46,M ]	[ \$22,1 \$22,M ]	[ S17,1 S17,M ]	[ S44,1 S44,M ]
	AVERAGE OF i=1~6	AVERAGE OF i=7~10	AVERAGE OF i=11 ~ 14	AVERAGE OF i = 15 ~ 18	AVERAGE OF i = 19 ~ 30

## FIG. 8

STATE NUMBER n	SYLLABLE	ADAPTIVR VECTOR OF ACCOUSTIC HMM AFTER UPDATED					
1	Α	[ X1, 1	X1,2	X1,3		X1, M	
2		[ X2, 1	X2, 2	X2,3		X2, M	
3	U	[ X3, 1	X3,2	X3,3		Хз, м	
4	E	[ X4, 1	X4,2	X4,3		X4, M ]	
5	0	[ X5, 1	X5, 2	<b>X</b> 5, 3		X5, M ]	
6	KA	X6, 1	X6, 2	X6,3		X6, M	
<u>:</u>	÷			:			
10	КО	X 10, 1	X 10, 2	X 10, 3		X10, M	
11	SA	[ X11, 1	X11, 2	X 11, 3		X11, M ]	
<u>:</u>				:			
16	TA	X 16, 1	X 16, 2	X 16, 3		X 16, M	
17	Ti	[ X 17, 1	X 17, 2	X 17, 3		X17, M	
				:			
21	NA	X21, 1	X21, 2	X21, 3		X21, M	
22	NI	X22, 1	X22, 2	X22, 3		X 22, M	
	:			- :			
26	HA	X26, 1	X26, 2	X 26, 3		X26, M	
	:			:			
31	MA	X31, 1	X31, 2	X31,3		Х31, М	
:	:			:			
36	YA	X36, 1	X 36, 2	X 36, 3		X36, M	
37	YU	X37, 1	X 37, 2	X 37, 3		X37, M ]	
38	YO	X 38, 1	X 38, 2	X38, 3		Х38, М ]	
39	RA	X39, 1	X 39, 2	X39, 3		Х39, м ]	
:	:			:			
44	WA	X 44, 1	X 44, 2	X44, 3		X44, M ]	
45	WO	X45, 1	X 45, 2	X45, 3		X45, M	
46	N	X46, 1	X46, 2	X46, 3		X46, M ]	
<u> </u>	:			:			
N	:	[ XN, 1	XN, 2	XN, 3		XN,M 1	

FIG. 9

